Detecting Seizures from a Low-density Montage with BrainsView

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Detecting Seizures from a Low-density Montage with BrainsView

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Paediatric Critical Care EDINBURGH
UKRI Medical Research Council
NHS Lothian
BrainsView

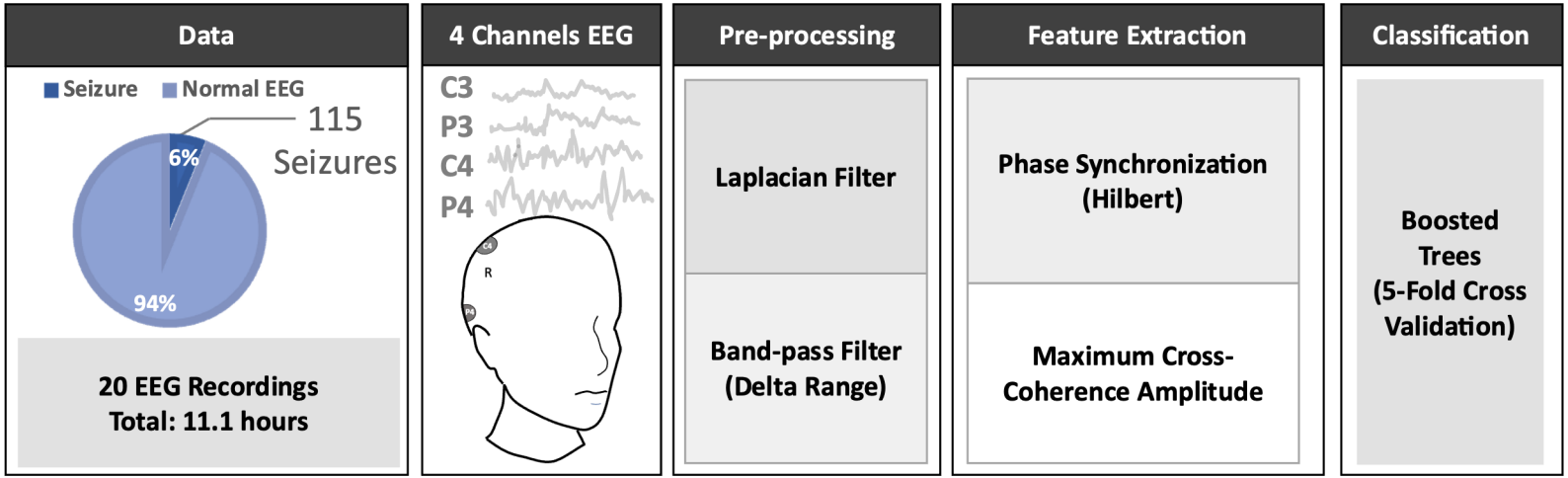
Introduction

- Seizures occur frequently in critically-ill children, but can go undetected in 56% of these patients

- Gold-standard seizure detections using multi-channels Electroencephalogram (EEG) require :
  - Trained clinical physiologists
  - Highly specialised neurologists

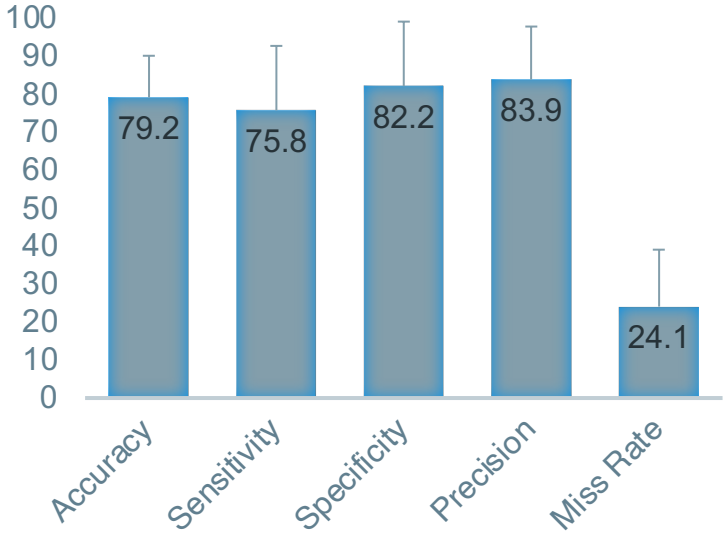
Aim: To provide front-line clinicians a user friendly and accurate real-time tool for the identification of seizures

Methods

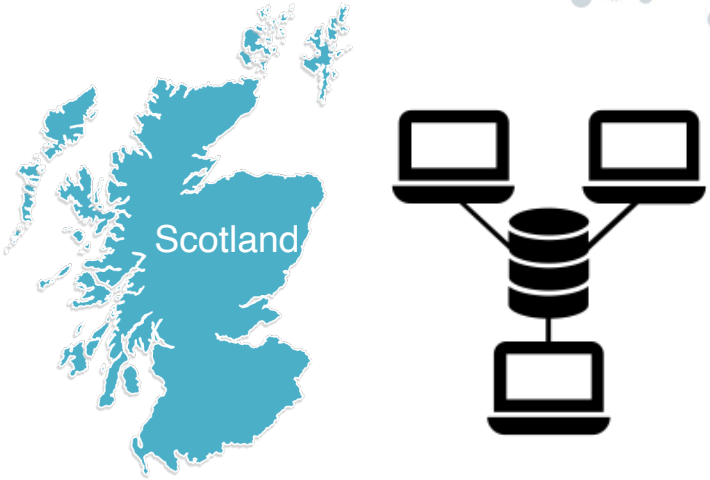


EEG recordings were provided by Royal Hospital for Sick Children, Edinburgh, Scotland.

Results & Future work



Average Performance in 20 Subjects



Future Work

Acknowledgement

- Medical Research Council- Confidence in Concept
- Clinical Neurophysiology Department of Royal Hospital for Sick Children

References

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